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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 33727-2017

**Analogue quartz clocks -- Fitting dimensions of movements to
hands**

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method equivalent to ISO 13074..2012 "pointer quartz clock and heart with the pointer size".

And the normative reference in this standard international documents are consistent with the relationship between China's documents are as follows.

Geometrical product specifications (GPS) - Limits and mating - Part 1. Tolerances, deviations and mating - GB/T 1800.1-2009

(ISO 286-1. 1988, MOD);

Geometrical product specifications (GPS) - Limits and mating - Part 2. Standard tolerances and

Hole, shaft limit deviation table (ISO 286-2. 1988, MOD);

--- GB/T 157-2001 Geometrical product specifications (GPS) Cone taper and taper angle series (ISO 1119..1998,

eqv).

This standard is proposed by the China Light Industry Federation.

This standard by the National Standardization Technical Committee (SAC/TC160) centralized.

The drafting of the standard units. light industry watches and clocks, Changzhou Jingke Industrial Co., Ltd., Fujian Province, State Electronic Technology Co., Ltd., Fujian

Jiabang Electronics Co., Ltd., Fujian Shangrun Precision Instrument Co., Ltd., Guangzhou Fidelity Watch & Clock Industry Co., Ltd., Zhangzhou Hengli Electronics Co., Ltd.

Company, Shenzhen Titan Clock & Watch Technology Co., Ltd.

1 Scope

This standard specifies the size of the movement with the pointer, for the following characteristics with the trouble and no alarm pointer quartz clock and hanging

The movement of the clock.

The outer diameter of the runner tube is between 1.3mm and 3.6mm;

--- wheel, sub-wheel, second wheel and the wheel is made of metal and plastic materials.

Other types of pointer quartz clock can refer to the use of this standard.

2 normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article

Pieces. For undated references, the latest edition (including all modifications) applies to this document.

ISO 286-1 Geometrical product specifications (GPS) ISO dimensions for linear dimension tolerances - Part 1. Basic tolerances, partial

Difference and coordination [Geometrical products specifications (GPS) -ISO codes system for tolerances on linear sizes-

Part 1. Basis of tolerances, deviations and fits]

ISO 286-2 Geometrical product specifications (GPS) ISO dimensions for linear dimension tolerances - Part 2. Standard for holes and shafts

Tolerance level and limit deviation table [Geometrical products specifications (GPS) -ISO codes system for tolerances on

linear sizes-Part 2. Tables of standard tolerance classes and limit deviations for holes and shafts]

ISO 1119 Geometrical product specifications (GPS) Taper and taper angle series [Geometrical products specifications

(GPS) -Series of conical tapers and taper angles]

3 terms and definitions

The terms and definitions defined in ISO 286-1, ISO 286-2 and ISO 1119 apply to this document.

4 symbols and explanations

The symbols in Figures 1 to 4 are explained as follows.

d1, D1 --- when the wheel with the clock with the nominal diameter;

d2, D2 --- with the minute tube with the minute hand with the nominal diameter;

d3, D3 --- seconds wheel with the second hand with the nominal diameter;

d4, D4 --- the wheel with the alarm with the nominal diameter;

h1 --- the height of the wheel and the hourly assembly;

h2 --- sub-tube and minute hand assembly height;

h3 --- second hand shaft and second hand assembly height;

h4 --- the assembly wheel and the alarm needle assembly height.